

NOV 1977

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MENLO PARK, CA. 94025



vol. 21
1977

PAARA

Graphs



palo alto
AMATEUR
RADIO ASSN.

MENLO PARK C.D. RADIO CLUB, K6YQT

NOVEMBER 1977

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VOLUME 21 NUMBER 11

PAARAgaphs is the official organ of the PALO ALTO AMATEUR RADIO
ASSOCIATION AND THE MENLO PARK CIVIL DEFENSE RADIO CLUB

1977 CLUB OFFICERS

| | | | |
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PAARA POLICIES

Membership in PAARA is a mere \$4 per calendar year, which includes a subscription to this fine periodical. PAARAgaphs alone may be had for a trifling \$1. Send cash, check, or money order to:

PAARA P. O. Box 911 Menlo Park, California 94025

PAARAgaphs STAFFE

| | | | |
|-------------------|--------|---------------|----------|
| EXECUTIVE EDITOR | N6PY | Terry Conboy | 592-8750 |
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| EAST COAST EDITOR | WA6NCX | Rick Ferranti | |
| COVER ARTIST | LØVELY | Sue Lindner | |

Contributions to N6RY 1231 Crestview Drive San Carlos, CA 94070

THE PAARA BOARD OF DIRECTORS WILL CONVENE on the following Wednesday
at the decrepit W6OTX trailer residing comfortably in its golden years
in the parking lot at SRI. Step carefully into our old friend at 7: 30 PM
for a pleasant get-together. Final XMAS party plans and further jive.

THE PAARA NETS OCCUR WEEKLY (give or take a six-pack). Check out the AM NET at 8:15 PM Mondays on 145.24 (soon to be in the new repeater band) and the FM NET at 8:30 PM Mondays on 147.45 (becoming the busiest frequency this side of '52.) The PICS NET holds forth at somewhat random times on 21.393 or 14.245 at 9 AM on alternate Saturdays. November dates should be the 5th and the 19th (check with W6NIR).

OUR FLEA MEARKET AND AUCTION WAS A RESOUNDING SUCCESS THIS YEAR!

A minimum of 260 attendees signed in on October 8th and rented 23 flea market tables and sold 83 items in 23 lots at auction.

| | | |
|---------------------------------------|-----------|----------|
| Auction Sales | \$1231.00 | |
| Commission on Sales | 123.10 | |
| PAARA Items Sold | 231.50 | |
| Auction Net | | \$354.40 |
| Flea Market Tables and Raffle Tickets | | 171.25 |
| PAARA Flea Market Table | | 169.85 |
| Refreshments | | 7.90 |

TOTAL FLEA MARKET & AUCTION RECEIPTS \$703.40 !

This is subject to some minor errors, due to the general confusion which reigns at all such events, but represents the most successful outing that we have ever had. Thanks to all that helped, and most of all to K6YT who brought it all together. Only one question remains...see page 7.

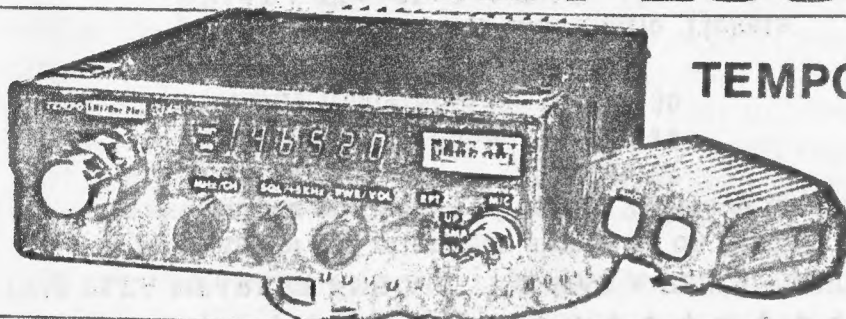
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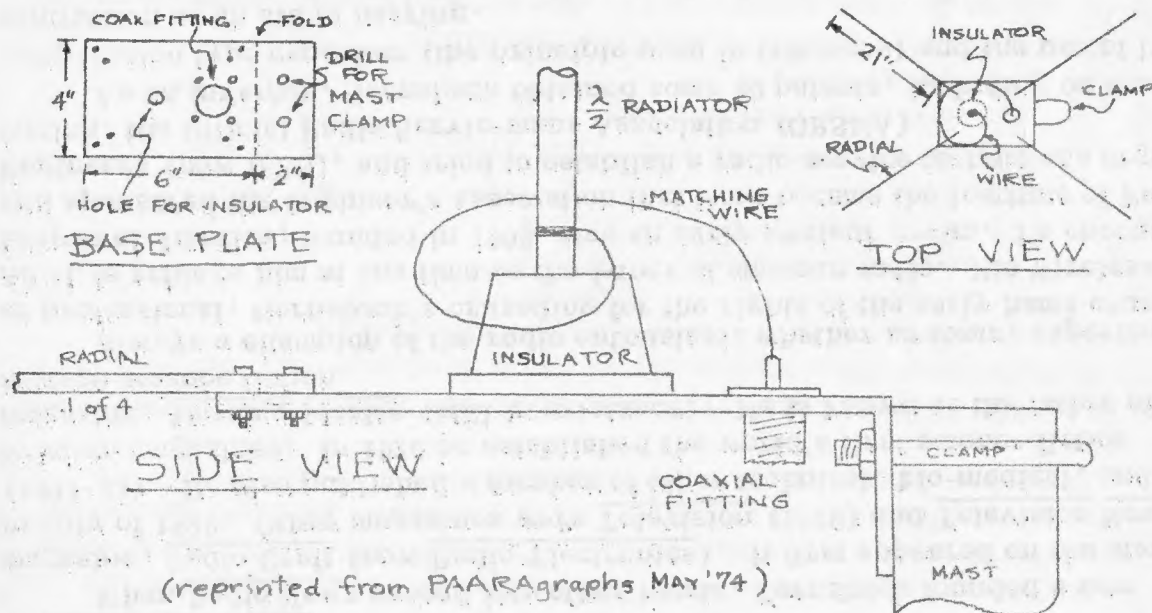
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TEN-TEC
TURNER
& MANY OTHERS

FAMOUS PAARA HALF-WAVE TWO METER ANTENNA designed by Mike, WB6FFC.
Neatly described by Jerry, WA6OPA and built by countless others.



(reprinted from PAARAGraphs MAY '74)

MATERIALS: 4" by 8" metal plate (aluminum FB); four 23" alum. tubes (steal from a TV antenna), one 37" to 39" tube, one coax fitting, one mast clamp and 10" of number 12 wire.

CONSTRUCTION: Bend metal plate at right angles 2 inches from end and drill the small bend for the mast clamp. Drill the ends of the 23 inch tubes so they can be bolted to the plate with 21 inches extending past the plate to form a cross. Bolt the insulator and the coax fitting to the base plate. Then cut the desired $\frac{1}{2}$ wavelength for the frequency desired. (The wire, added next, forms a matching network for the radiator.)

Fasten a short length of wire to the bottom of the tube; form in a circle around the insulator and solder to the inner conductor of the coax fitting.

TUNING: Adjust for lowest SWR by pruning the length of the matching wire, then clamp to the mast. As with all antennas, the higher you put it up, the better it will work. This is a very simple way to boltster your signal on two -- about 2 dB better than your old quarter wavelength antenna.

HUGO GERNSBACK 1884-1967

Hugo Gernsback, Editor-in-chief of Radio-Electronics, writer, publisher, educator, inventor, and prophet, died August 19, ten years ago, in New York City. He was 83 years old.

Born in Luxembourg, Germany August 16, 1884, he received an electrical engineering education at the Technicum in Bingen, Germany. He came to the United States in 1904 to exploit an invention: an improved dry battery. A year later, he started the Electro Importing Company, the world's first radio supply house.

In 1908, Gernsback founded Modern Electrics, the first of a long series of radio and technical magazines. He sold it in 1912 and after a series of combinations, it became one of the ancestors of today's Popular Science. He immediately started another magazine, The Electrical Experimenter (which became Science & Invention in 1921.) In 1919, he established a purely radio magazine, Radio Amateur News. It became Radio News in 1920 and still exists as Electronics World.

When Radio News passed into other hands, Gernsback founded a new magazine, Radio Craft (now Radio-Electronics). It first appeared on the stands in July of 1929. Other magazines were Television (1929) and Television News (1921-33). He also published a number of other technical, bio-medical, and aviation magazines. In 1926 he established the world's first science fiction magazine, Amazing Stories (still in existence). He is known as the father of modern science fiction.

Always a champion of the radio enthusiast, whether amateur, experimenter, or professional, Gernsback's crusading for the rights of the early hams caused the ARRL to refer to him at one time as the father of amateur radio. His Wireless League of America, founded in 1909, was an early amateur group. He encouraged and sponsored the engineer's association that later became the Institute of Radio Engineers (now IEEE), and tried to establish a radio service technicians organization, the Official Radio Servicemen's Association (ORSMA).

As an inventor, Gernsback obtained some 80 patents, including on the compression type capacitor (the principle used in trimmers) and the use of bone conduction as an aid to hearing.

Best known to the general public as a prophet, Gernsback's most striking prediction was the description of RADAR, which appeared in the Modern Electronics serial "Ralph 124C41+".

(continued on the next page...)

GERNsBACK, continued from previous page

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In the same story, he predicted space travel, microfilm, two-way television, germicidal rays, tape recording (with $\frac{1}{4}$ inch tape), artificial silk and wool, and fluorescent lights.

He was the author of three books, The Wireless Telephone, 1908, Radio for All, 1922, and Ralph 124C41+, which appeared in book form in 1925. A second edition was published in 1950 and a paperback was put out by Crest Books in 1958. A Russian translation was published in 1964.

In 1928, his radio station WRNY in New York City, was the first to broadcast television on a regular schedule. The miniature picture was not considered entertainment quality, even in that day, but were faithfully received by more than 2000 amateur viewers.

(Credit for the above is due Radio-Electronics and the Old Timers Bulletin.)

* * * * *

N6RY PHONETICS CONTEST turned out like most PAARA contests... almost zero interest. The two entrants get the two prizes. Actually they put a lot of work into it. First place (and the ARRL tome) goes to Loren, WA6ENC, with 24 entries, among which was the gem: "Naked Six Radioactive Yogis". Second place (and a real OSCARlocator) belongs to Jerry, WA6LIJ, with 21 entries, the best of which was "N6 Real Yummy". (The above decision was not in the least influenced by the unreasonable facsimile of a dollar bill.) Thanks gents.

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PAARA Tidbits of great variety and dubious importance (in some cases).....

PAARA has some \$2600, most of which is of little benefit. Suggestions for its use have been: A repeater...new station equipment...trailer repairs... social activities...a trailer for the FD generator...FD stuff... and ??????

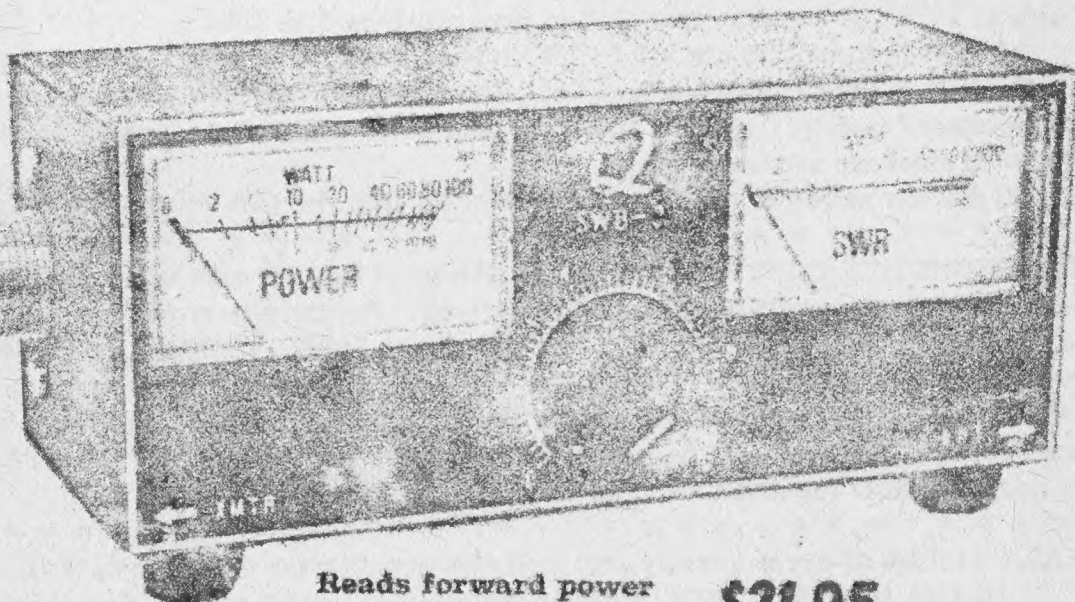
XMAS Dinner will be at Rick's Swiss Chalet on Monday, December 19th with booze at 6 and food at 7. Details next month and at November meeting.

Congrats to upgraders Steve, WD6AAS (to General) and George, WA6SZX (to Technician). Note that Gary, W0ZAO is now W0SH.

Add to your roster, new members John F. Roberts, Jr., W6OXP, at 2140 Bryant St., PA 94301 (phone 327-0690) and Gerald Dikum, WD6CVW. 1023 Menlo Oaks Drive, MP 94901 (phone 322-8300). Also add returning member John Troster, W6ISQ, 82 Belbrook Way, Atherton 94025. Note Kurt Kanthak is not WA6SIX, but is WD6BGV.

Hank, W6UCE, at 493-9046 needs antenna tuning help. Erv, W6YPM is looking for a 110v, 1kW generator. PAARA has 3 TU10B's for \$3.50 each.

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